## STIC Biotechnology Systems Branch

# RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	/0/507:/40
Source:	Pa/10.
Date Processed by STIC:	12/8/05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS. PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 4.2.2 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

### Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 10/507,140
ATTN: NEW RULES CASES	: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
lWrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3: this will prevent "wrapping."
2Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3Misaligned Amino Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do <b>not</b> use tab codes between numbers: use <b>space characters</b> , instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:  (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8 Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing.  Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
\ "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13 Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



PCT

RAW SEQUENCE LISTING DATE: 12/08/2005
PATENT APPLICATION: US/10/507,140 TIME: 10:59:19

Input Set : E:\seq listing.txt

Output Set: N:\CRF4\12082005\J507140.raw

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3 <110> APPLICANT: NERI, Dario
             MELKKO, Samu
      6 <120> TITLE OF INVENTION: Encoded Self-Assembling Chemical Libraries (Esachel)
      8 <130> FILE REFERENCE: PUS-E005-105B
     10 <140> CURRENT APPLICATION NUMBER: 10/507,140
C--> 11 <141> CURRENT FILING DATE: 2004-09-07
     13 <150> PRIOR APPLICATION NUMBER: PCT/EP02/04153
     14 <151> PRIOR FILING DATE: 2002-03-08
                                                                     Does Not Comply

Onected Diskette Neede

112-4
     16 <160> NUMBER OF SEQ ID NOS: 28
     18 <170> SOFTWARE: PatentIn version 3.3
     20 <210> SEQ ID NO: 1
     21 <211> LENGTH: 60
     22 <212> TYPE: DNA
     23 <213> ORGANISM: Artificial
     25 <220> FEATURE:
    26 <223> OTHER INFORMATION: Primer L19VH_Eco_fo
     28 <400> SEQUENCE: 1
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     32 <210> SEQ ID NO: 2
     33 <211> LENGTH: 66
     34 <212> TYPE: DNA
    35 <213> ORGANISM: Artificial
     37 <220> FEATURE:
     38 <223> OTHER INFORMATION: Primer L19VH Hind ba
     40 <400> SEQUENCE: 2
     41 tcaatctgat taagcttagt gatggtgatg gtgatgacat ccaccactcg agacggtgac
                                                                                60
     43 cagggt
                                                                                66
     46 <210> SEQ ID NO: 3
     47 <211> LENGTH: 63
     48 <212> TYPE: DNA
    49 <213> ORGANISM: Artificial
    51 <220> FEATURE:
    52 <223> OTHER INFORMATION: Primer L19VL Eco fo
    54 <400> SEQUENCE: 3
    55 tttcacacag aattcattaa agaggagaaa ttaactatgg aaattgtgtt gacgcagtct
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    57 cca
                                                                                63
    60 <210> SEQ ID NO: 4
    61 <211> LENGTH: 69
    62 <212> TYPE: DNA
    63 <213> ORGANISM: Artificial
    65 <220> FEATURE:
    66 <223> OTHER INFORMATION: Primer L19VL_Hind_ba
    68 <400> SEQUENCE: 4
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/507,140

DATE: 12/08/2005 TIME: 10:59:19

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Output Set: N:\CRF4\12082005\J507140.raw

69 tcaatctgat taagcttagt gatggtgatg gtgatgacat ccacctttga tttccacctt 60 71 ggtcccttg 69 74 <210> SEQ ID NO: 5 75 <211> LENGTH: 60 76 <212> TYPE: DNA 77 <213> ORGANISM: Artificial 79 <220> FEATURE: 80 <223> OTHER INFORMATION: Primer HH10VH\_Eco\_fo 82 <400> SEQUENCE: 5 83 tttcacacag aattcattaa agaggagaaa ttaactatgg aggtgaagct gcagcagtct 60 86 <210> SEQ ID NO: 6 87 <211> LENGTH: 66 88 <212> TYPE: DNA 89 <213> ORGANISM: Artificial 91 <220> FEATURE: 92 <223> OTHER INFORMATION: Primer HH10VH Hind ba 94 <400> SEQUENCE: 6 95 tcaatctgat taagcttagt gatggtgatg gtgatgacat ccacctgcag agacagtgac 60 97 cagagt 66 100 <210> SEQ ID NO: 7 101 <211> LENGTH: 63 102 <212> TYPE: DNA 103 <213> ORGANISM: Artificial 105 <220> FEATURE: 106 <223> OTHER INFORMATION: Primer HH10VL\_Eco\_fo 108 <400> SEQUENCE: 7 109 tttcacacag aattcattaa agaggagaaa ttaactatgg atattgtgct aactcagtct 60 63 111 cca 114 <210> SEQ ID NO: 8 115 <211> LENGTH: 69 116 <212> TYPE: DNA 117 <213> ORGANISM: Artificial 119 <220> FEATURE: 120 <223> OTHER INFORMATION: Primer HH10VL Hind ba 122 <400> SEQUENCE: 8 123 tcaatctgat taagettagt gatggtgatg gtgatgacat ccacetttta tttccagett 60 125 ggtcccccc 128 <210> SEQ ID NO: 9 129 <211> LENGTH: 48 130 <212> TYPE: DNA yes, but ensufficient explanation of
Artificial Sequence
48 (que source
1 genetic
materialsee item 11 on
Error Summary
Steet) 131 <213> ORGANISM: Artificial 133 <220> FEATURE: 134 <223> OTHER INFORMATION; with 5' -thiol 136 <400> SEQUENCE: 9 137 ggagettetg aattetgtgt getgeataat egacacgaat teegeage 140 <210> SEQ ID NO: 10 141 <211> LENGTH: 48 142 <212> TYPE: DNA 143 <213> ORGANISM: Artificial

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/507,140

DATE: 12/08/2005 TIME: 10:59:19

Input Set : E:\seq listing.txt

Output Set: N:\CRF4\12082005\J507140.raw

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214 <212> TYPE: DNA

217 <220> FEATURE:

215 <213> ORGANISM: Artificial

RAW SEQUENCE LISTING DATE: 12/08/2005
PATENT APPLICATION: US/10/507,140 TIME: 10:59:19

Input Set : E:\seq\_listing.txt

Output Set: N:\CRF4\12082005\J507140.raw

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     226 <212> TYPE: DNA
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     232 <400> SEQUENCE: 17
     233 tcgcgagggg aattcgtc
                                                                                  18
     236 <210> SEQ ID NO: 18
     237 <211> LENGTH: 39
     238 <212> TYPE: DNA
     239 <213> ORGANISM: Artificial
     241 <220> FEATURE:
     242 <223> OTHER INFORMATION: Primer typeB_oligo
     244 <400> SEQUENCE: 18
     245 gcataccgga attcccagca taatgatcgc tatcgctgc
                                                                                  39
     248 <210> SEQ ID NO: 19
                                                                           Per Segune Rule:
     249 <211> LENGTH: 63
     250 <212> TYPE: DNA
     251 <213> ORGANISM: Artificial
     253 <220> FEATURE:
     254 <223> OTHER INFORMATION: Primer typeA oligo with spacer element; d is a, c, g, or t
     257 <220> FEATURE:
W--> 258 <221> NAME/KEY: Spacer element
     259 <222> LOCATION: (40)..(45)
     261 <400> SEQUENCE: 19
     262 cgtcagctcg aattctccat atatgcagcg atagcgatcd dddddctggg aattccggta
     264 tgc
     267 <210> SEQ ID NO: 20
     268 <211> LENGTH: 18
     269 <212> TYPE: DNA
                                                                                    instead and
Sylain in
2220>-2237
section
     270 <213> ORGANISM: Artificial
     272 <220> FEATURE:
     273 <223> OTHER INFORMATION: Primer CodeABfo
     275 <400> SEQUENCE: 20
     276 gcataccgga attcccag
     279 <210> SEQ ID NO: 21
     280 <211> LENGTH: 18
     281 <212> TYPE: DNA
     282 <213> ORGANISM: Artificial
     284 <220> FEATURE:
     285 <223> OTHER INFORMATION: Primer CodeABba
     287 <400> SEQUENCE: 21
                                                                                  18
     288 cgtcagctcg aattctcc
     291 <210> SEQ ID NO: 22
     292 <211> LENGTH: 29
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DATE: 12/08/2005

TIME: 10:59:19

Input Set : E:\seq listing.txt Output Set: N:\CRF4\12082005\J507140.raw 293 <212> TYPE: DNA 294 <213> ORGANISM: Artificial 296 <220> FEATURE: 297 <223> OTHER INFORMATION: Primer with 5' sequence specifically coding a member of a sublibrary; where n is a, c, g, or t 301 <220> FEATURE: 302 <221> NAME/KEY: misc feature 303 <222> LOCATION: (1)..(5) 304 <223> OTHER INFORMATION: n is a, c, g, or t 306 <400> SEQUENCE: 22 ≤ 307 nnnnncagca cacagaattc agaagctcc 29 310 <210> SEQ ID NO: 23 311 <211> LENGTH: 29 312 <212> TYPE: DNA 313 <213> ORGANISM: Artificial 315 <220> FEATURE: 316 <223> OTHER INFORMATION: Primer with a 3' sequence specific for a member of a library; 317 where n is a, c, g, or t 320 <220> FEATURE: 321 <221> NAME/KEY: misc feature 322 <222> LOCATION: (25)..(29) 323 <223> OTHER INFORMATION: n is a, c, q, or t 325 <400> SEQUENCE: 23 W--> 326 ggagcttctg aattctgtgt gctgnnnnn 29 329 <210> SEQ ID NO: 24 330 <211> LENGTH: 24 331 <212> TYPE: DNA 332 <213> ORGANISM: Artificial 334 <220> FEATURE: 335 <223> OTHER INFORMATION: Primer with 5' sequence specific for a chemical moiety linked to primer by a biotinylated base analog 336 338 <400> SEQUENCE: 24 24 339 cagcacacag aattcagaag ctcc 342 <210> SEQ ID NO: 25 343 <211> LENGTH: 48 344 <212> TYPE: DNA 345 <213> ORGANISM: Artificial 347 <220> FEATURE: 348 <223> OTHER INFORMATION: Primer with 5' iminobiotinyl-NH-(CH2)6 group 350 <400> SEQUENCE: 25 351 ggagettetg aattetgtgt getgattgge egacacgaat teegeage 48 354 <210> SEQ ID NO: 26 355 <211> LENGTH: 48 356 <212> TYPE: DNA 357 <213> ORGANISM: Artificial 359 <220> FEATURE: 360 <223> OTHER INFORMATION: Primer with 3' (CH2)6-NH-iminobiotinyl group 362 <400> SEQUENCE: 26

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/507,140

363 tegegagggg aattegteat ttaccageae acagaattea gaagetee

48

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/507,140

DATE: 12/08/2005 TIME: 10:59:20

Input Set : E:\seq listing.txt

Output Set: N:\CRF4\12082005\J507140.raw

#### Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:22; N Pos. 1,2,3,4,5 Seq#:23; N Pos. 25,26,27,28,29

### Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27 Seq#:28 VERIFICATION SUMMARY

PATENT APPLICATION: US/10/507,140

DATE: 12/08/2005 TIME: 10:59:20

Input Set : E:\seq\_listing.txt

Output Set: N:\CRF4\12082005\J507140.raw

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:258 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:19

L:307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0 L:326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0